

Pollution Prevented by Endless Energy's Wind Farm

Per Year compared to a New England's current power plants.....
Using 2003 marginal emissions rate

Pollutant	Pollution per MWh (pounds)	Pounds	Tons
Carbon dioxide	1179	313,590,420	156,795
Sulphur oxides	1.98	526,640	263
Nitrous oxides	0.73	194,165	97
Total...	1,182	314,311,226	157,156
MWh per turbine per yr:	8,866	Number of days:	365
Number of turbines:	30	Total MWh	265,980

Per Day compared to New England's current power plants...

Pollutant	Pollution per MWh (pounds)	Pounds	Tons
Carbon dioxide	1179	859,152	430
Sulphur oxides	1.98	1,443	1
Nitrous oxides	0.73	532	0
Total...	1,182	861,127	431
MWh per turbine per yr:	8,866	Number of days:	1
Number of turbines:	30	Total MWh	729

One turbine operating one day compared New England's current power plants....

Pollutant	Pollution per MWh (pounds)	Pounds	Tons
Carbon dioxide	1179	28,638	14
Sulphur oxides	1.98	48	0
Nitrous oxides	0.73	18	0
Total...	1,182	28,704	14
MWh per turbine per yr:	8,866	Number of days:	1
Number of turbines:	1	Total MWh	24

Number of homes: 44330

AWEA data: 14.5 kwh per gallon
728,712 kwh a day
50,256 gallons per day
18,343,448 gallons per year

Miles driven 12000 per year
20 pounds of CO2 per gallon
20 miles per gallon
1 pound of CO2 per mile
12000 pounds of CO2 per car per year

Pollution avoided/yr. 314,311,226
26,193 cars taken off the road

Btus of fossil fuel required to generate each kWh, 2000 10,419

Length of standard railroad coal car, feet 53

Capacity of standard railroad coal car, pounds 238,500

kWh that a coal car full of coal can produce 232,738

kWh that a mile-long train full of coal can produce 23,149,700

Miles of coal train needed to equal Redington annual output... 11.5 miles of coal cars
1,142.8 number of coal cars